

$$\sin x = \frac{1}{2}$$

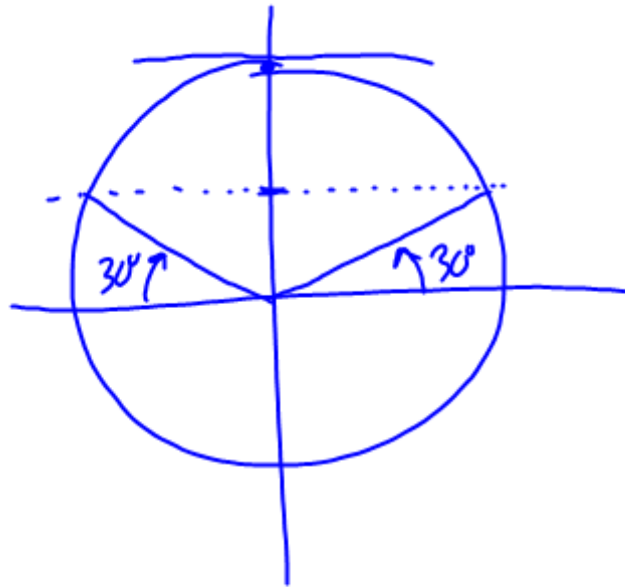
$$x = \sin^{-1}\left(\frac{1}{2}\right)$$

$$x = 30^\circ$$

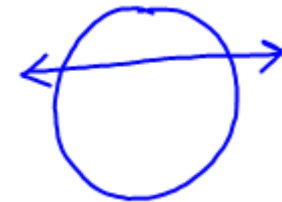
$$[0, 360^\circ)$$

$$30^\circ, 150^\circ$$

$$\sin^2 x + \sin x - 2 = 0$$



csc sin



sec. cos



#20

$$2\cos^2 x - \sqrt{3}\cos x = 0$$

$$\underline{\underline{(\cos x)(2\cos x - \sqrt{3}) = 0}}$$

$$\cos x = 0$$

$$x = \frac{\pi}{2}, \frac{3\pi}{2}$$

$$2\cos x - \sqrt{3} = 0$$

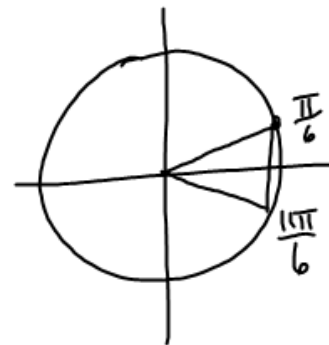
$$+ \sqrt{3} \quad + \sqrt{3}$$

$$\frac{2\cos x}{2} = \frac{\sqrt{3}}{2}$$

$$\cos x = \frac{\sqrt{3}}{2}$$

$$x = \cos^{-1}\left(\frac{\sqrt{3}}{2}\right)$$

$$x = \frac{\pi}{6}, \frac{11\pi}{6}$$



Sect. 6.2

#9, 12-22, 24, 25, 27, 31, 37, 40